WESTERMAN

Reducing Footprint and Cost in the Delaware Basin

WESTERMAN'S SEPARATION TECHNOLOGY:

ELIMINATED a need for excess equipment

REDUCED footprint by **62%**

LOWERED surface equipment cost by **36%**

LIMITED oil carryover for increased revenue and fewer emissions

WESTERMAN HELPED A MAJOR OPERATOR RETHINK THE POTENTIAL EFFICIENCY OF SURFACE PROCESSING EQUIPMENT—DELIVERING PARITY SEPARATION THROUGHPUT WITH LESS EQUIPMENT, FOOTPRINT AND SPEND.

The Permian's Delaware Basin is characterized by oil-rich horizontal wells with long laterals—arranged in multiple stacked targets. This operator owns hundreds of wells in the region, representing an investment of billions. At that kind of scale, even small refinements in surface processing efficiency can have a significant impact on overall production economics.

CHALLENGE

The customer came to us with separation needs for two Delaware Basin wells: one with a one-mile lateral and the other with a two-mile lateral. The company's hardware approach for each included specifications for a vertical separator, an additional three-phase separator and a large capacity heater treater.

This package would have also included all of the associated piping that connects these components. As proposed, the total footprint of the separation equipment at both wells combined was approximately 704 square feet.

SOLUTION

Westerman's advanced separation technology enabled the operator to eliminate the need for excess equipment. In addition to the associated cost-savings, this enabled consolidation of equipment onto a single skid—not only minimizing footprint but also simplifying field setup. No additional hookups were necessary for that well; just a single tie-in on the inlet and outlet. In all, the modular solution reduced footprint by 62 percent.

The resulting design simplified the well site, lowered overall CAPEX spend and still delivered the same processing throughput with less oil carryover.

SINGLE SKIDDED UNIT